

Claims:

1. A method for manufacturing filaments from an optically anisotropic spinning solution in which the spinning solution is extruded through a spinneret (1) comprising a spinning field (2) with a plurality of spinning orifices (3), into a coagulation bath (4) through a slot or diaphragm (5) the edges (6a,6b) thereof being formed by plates (7a,7b) with upper (8a,8b) and lower sides (9a,9b), the upper sides (8a,8b) of the plates (7a,7b) being defined as the sides having the shortest distance to the spinning field (2), characterized in that the line (10) through the center (13) of the spinning field (2) and perpendicular to the upper sides (8a,8b) is put at a distance (d) to a parallel line (11) through the center (14) of the slot or diaphragm (5), the projection of which has about the same size and shape as the projection of the spinning field (2), and wherein the plane of the upper side (8b) of one plate (7b) having a shorter distance to the center (13) of the spinning field than the plane of the upper side (8a) of the other plate (7a), and the line (10) has a smaller distance to the edge (6a) of plate (7a) than to edge (6b) of plate (7b).
2. An air gap spinning device comprising a spinneret (1) comprising a spinning field (2) with a plurality of spinning orifices (3), and a slot or diaphragm (5) with edges (6a,6b) formed by plates (7a,7b) with upper (8a,8b) and lower sides (9a,9b), the upper sides (8a,8b) of the plates (7a,7b) being defined as the sides that have the shortest distance to the spinning field (2), characterized in that a line (10) through the center (13) of the spinning field and perpendicular to the upper sides (8a,8b) has a distance (d) with a parallel line (11) through the center (14) of the slot or diaphragm (5), the projection of which has about the same size and shape as the projection of the spinning field (2), and wherein the plane of the upper side (8b) of one plate (7b) has a shorter distance to the center (13) of the spinning field than the plane of the upper side (8a) of the other plate (7a), and line (10) has a smaller distance to the edge (6a) of plate (7a) than to edge (6b) of plate (7b).
3. The air gap spinning device of claim 2 wherein the thickness of each of the plates (7a,7b) is independently 0.5 to 5 mm.
4. The air gap spinning device of claim 2 or 3 wherein the distance (d) between line (10) and line (11) is 0.4 to 50 mm.

5. The air gap spinning device of claim 4 wherein the distance (d) between line (10) and line (11) is 1 to 2 mm.

5 6. The air gap spinning device of any one of claims 2-5 wherein the thickness of each of the plates (7a,7b) is about the same as the distance (d) between line (10) and line (11).

10 7. The air gap spinning device of any one of claims 2-6 wherein the projection of the slot or diaphragm (5) has a somewhat greater length than the projection of the spinning field (2) and is somewhat narrower in width.